

Title (en)

PROCEDURE FOR LOAD-DEPENDING CONTROL OF BRAKE PRESSURE ON VEHICLES AND DEVICE FOR ACCOMPLISHING THIS PROCEDURE

Publication

EP 0357983 A3 19900912 (DE)

Application

EP 89114660 A 19890808

Priority

DE 3829951 A 19880903

Abstract (en)

[origin: EP0357983A2] The procedure makes it possible to utilise tried and tested and robust components, signal paths and transmitters of an available anti-lock braking system (ABS) in order to obtain an automatically load-dependent braking function acting well below the wheel locking limit. For this purpose, it is proposed also to regulate the brake pressure and hence the distribution of braking at well below the wheel locking limit, in an axle-specific manner, by processing only wheel speed differences as actual values of an electronic brake pressure regulator instead of absolute slips. To compensate changing load situations and properties of the roadway, the precontrollable brake force distribution is itself learnt and adaptively corrected. The same applies to the brake pressure level triggerable at the pedal. The device for accomplishing the procedure consists essentially of components like those which are known from ABS systems. However, they are suitably matched or expanded in terms of software to fulfil the automatically load-dependent braking function. The procedure according to the invention obviates the need for axle load sensors. <IMAGE>

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Citation (search report)

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